

WHAT IS CLAIMED:

1. A purified human nucleic acid comprising SEQ ID NO 1, or the complement thereof.

5

2. The purified nucleic acid of claim 1, wherein said nucleic acid comprises a sequence encoding SEQ ID NO 2.

10 3. The purified nucleic acid of claim 1, wherein said nucleic acid encodes a polypeptide consisting of SEQ ID NO 2.

4. A purified polypeptide comprising SEQ ID NO 2.

15 5. The polypeptide of claim 4, wherein said polypeptide consists of SEQ ID NO 2.

6. An expression vector comprising a nucleotide sequence encoding SEQ ID NO 2, wherein said nucleotide sequence is transcriptionally coupled to an exogenous promoter.

20 7. The expression vector of claim 6, wherein said nucleotide sequence encodes a polypeptide consisting of SEQ ID NO 2.

8. The expression vector of claim 6, wherein said nucleotide sequence comprises SEQ ID NO 1.

25 9. The expression vector of claim 6, wherein said nucleotide sequence consists of SEQ ID NO 1.

10. A method of screening for a compound that is able to bind selectively to 30 GRM2sv1 comprising the steps of:

- (a) providing a GRM2sv1 polypeptide comprising SEQ ID NO 2;
- (b) providing one or more GRM2 isoform polypeptides that are not

GRM2sv1,

(c) contacting said GRM2sv1 polypeptide and said GRM2 polypeptide that is not GRM2sv1 with a test preparation comprising one or more test compounds; and

5 (d) determining the binding of said test preparation to said GRM2sv1 polypeptide and said GRM2 polypeptide that is not GRM2sv1, wherein a compound that binds said GRM2sv1 polypeptide but does not bind said GRM2 polypeptide that is not GRM2sv1 is a compound that selectively binds said GRM2sv1 polypeptide.

10 11. The method of claim 10, wherein said GRM2sv1 polypeptide is obtained by expression of said polypeptide from an expression vector comprising a polynucleotide encoding SEQ ID NO 2.

15 12. The method of claim 11, wherein said polypeptide consists of SEQ ID NO 2.

13. The method of claim 10, wherein said steps (b) and (c) are performed *in vitro*.

20 14. The method of claim 10, wherein said steps (a), (b) and (c) are preformed using a whole cell.

15. The method of claim 10, wherein said test preparation contains one compound.